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Land Use Classification

ERTS-1 Collin County, Texas
Subframe

E72-10026

CR - 127823

Analysis of Classification Results

Classification Serial Number 825214108

Run Number 72001403

Maximum Resolution

Multispectral scanner data were analyzed on a digital computer to determine the possibility of delineating and mapping soils and geologic features of interest in Collin County, Texas. The procedure involved automatic clustering and classification of as many as twelve spectrally separable classes. Features of interest which may be identified in the classification are surface drainage patterns which correspond closely to boundaries between different soils, cultivated fields, an escarpment which distinctly separates different soil associations and geologic parent materials, and three categories of water in the Lavon Reservoir. These three classes correspond to areas of relatively deep water, relatively shallow water and shallow water containing many dead tree stumps. In the agricultural areas two categories are easily separable spectrally, fields of green vegetation with relatively low reflectance and relatively high reflectance in the visible wavelengths. Those of low reflectance for scanner data obtained on July 25 correspond to cotton, grain sorghum and alfalfa. Those with high reflectance seem to be wheat stubble and grass pastures.

(E72-10026) A LAND USE CLASSIFICATION OF
THE ERTS-A, COLLIN COUNTY, TEXAS, SUBFRAME
OF THE TEXOMA FRAME M.F. Baumgardner
(Purdue Univ.) 15 Sep. 1972 1 p CSCL 08G

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Unclas
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